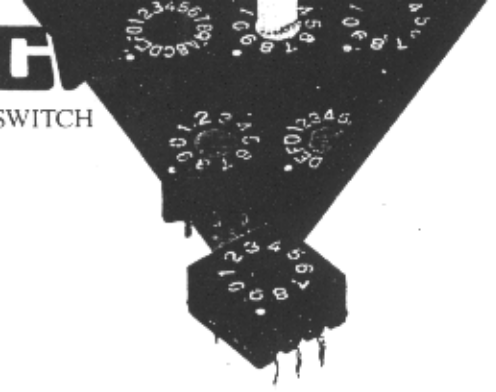
SWITCH



# ERD SERIES

## ROTARY TYPE SEALED CONSTRUCTION

PATENT NO: 61003

## ■ FEATURES

- Molded-in terminals and fully sealed construction.
- Standard 2.54mm pin spacing.
- UL 94V-0 grade fire retardant plastics.
- Reliable contact and long-term stability.
- Binary decimal (8 and 10 positions) and hexadecimal (16 positions) real and complimentary codes available.
- Pin-out compatible with most of current equivalents.
- Gold plated contact to ensure low contact resistance

## ■ SPECIFICATIONS

*1 ELECTRICAL*

- Max. load rating,
  Switching 25mA, 24VDC
  Non-switching 100mA, 50VDC.
- Contact resistance 100mΩ Max. at 5VDC, 10mA.
- Insulation resistance 1000MΩ min. at 100VDC
- Dielectric strength 250VAC for 1 minute

*2 MECHANICAL AND ENVIRONMENTAL*

- Temperature Rating
  Operating −25°C to +70°C
  Storage −40°C to +85°C
- Operating Force 500 gf-cm Max.
- Life 10000 cycles min. of operations.
- Vibration MIL-STD-202F, Method 204D
- Solderability After flux 230±5°C for 5±0.5 second 95% coverage.
- Soldering Heat For Through Hole Type
  260 ±5°C for 5±1 second.
  For Surface Mounting Type
  260±5°C for 10±1 second
  280±5°C for 2±0.5 second
  (Resistance to IR Reflow Soldering Heat)

## ■ CODE

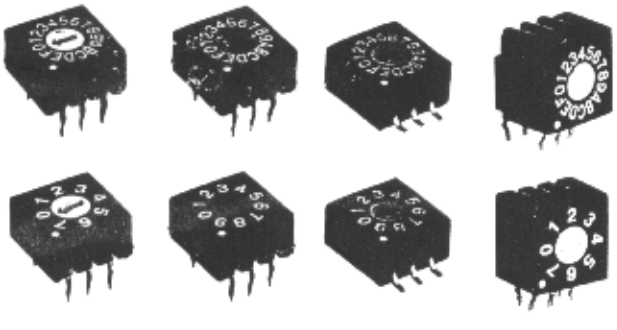
| PIN NO \ POSITION | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ○ | ● | ○ | ● | ○ | ● | ○ | ● | ○ | ● | ○ | ● | ○ | ● | ○ | ● |
| 2 | ○ | ○ | ● | ● | ○ | ○ | ● | ● | ○ | ○ | ● | ● | ○ | ○ | ● | ● |
| 4 | ○ | ○ | ○ | ○ | ● | ● | ● | ● | ○ | ○ | ○ | ○ | ● | ● | ● | ● |
| 8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | ● | ● | ● | ● | ● | ● |

● ..... Real Code
Rotor color: White

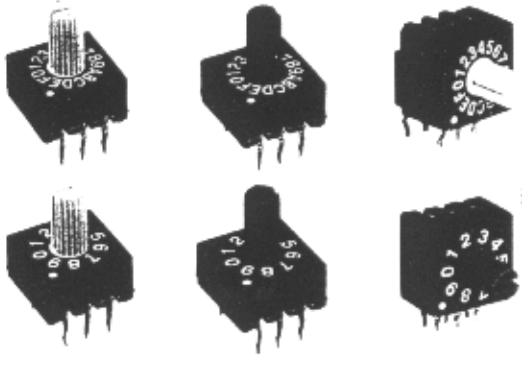
○ ..... Complimentary Code
Rotor color: Red

***ERD*** 1 x x x x (Flat Type)

NEW



***ERD*** 2 x x x x (Shaft Type)

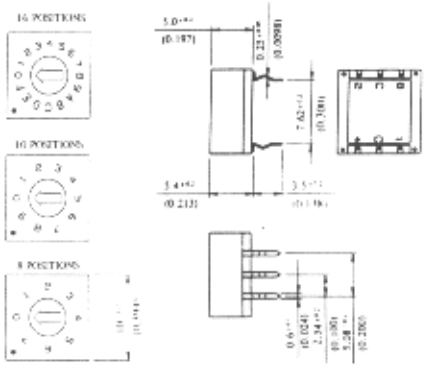


# ■ DIMENSIONS AND CIRCUITRY

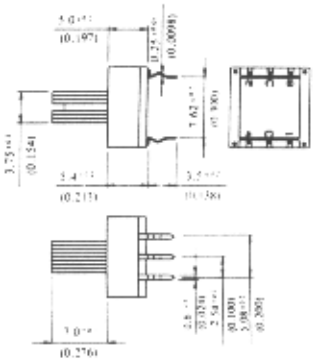
Unit: mm (inch)

Flat Type

ERD 1***S

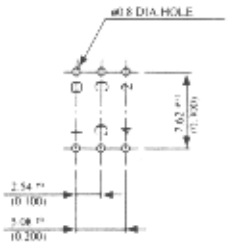


ERD 2***S

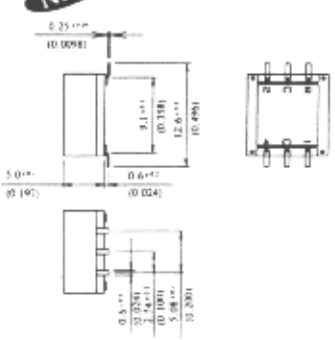


P.C.B LAY OUT (TOP VIEW)

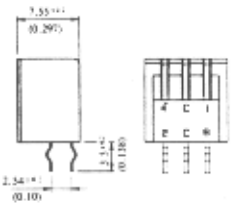
ERD ****S



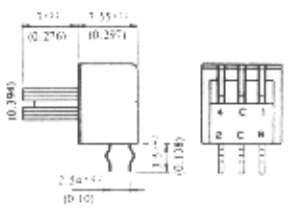

NEW ERD ****M



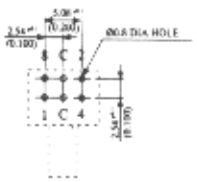
NEW ERD 1***R



NEW ERD 2***R

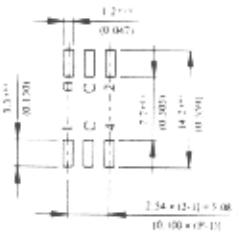


ERD ****R

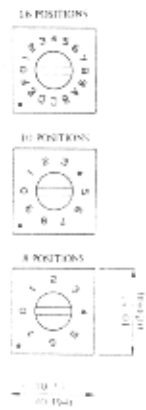



(SMT TYPE)

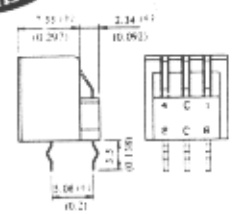
ERD****M



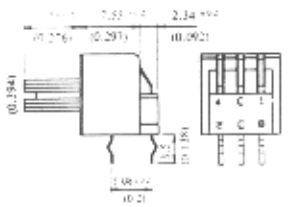
Shaft Type



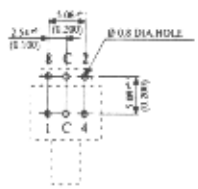
NEW ERD 1***F



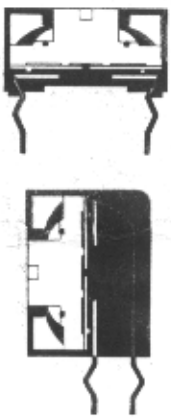
NEW ERD 2***F



ERD ****F




# ■ CONSTRUCTION



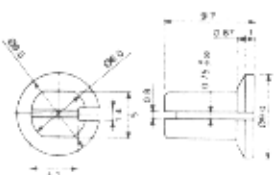
# ■ PART NUMBERING SYSTEM

ERD 1 10 R S

- *Setting:* *S: Standard type (Top Adjust type)*
  *R: Right Angle type with row spacing 2.54mm*
  *F: Right Angle Type with row spacing 5.08mm*
  *M: Surface Mounting type with Top Tape Sealed*
  *D: Surface Mounting type with Top Tape Sealed in Tape & Reel Package*
- *Code:* *R: Real*
  *C: Complimentary*
- *Number of Position:* *08*, *10*, *16*
- *Rotor:* *1: Flat type*
  *2: Shaft type*
- *Series name:* *ERD: Rotary Type Sealed Construction*

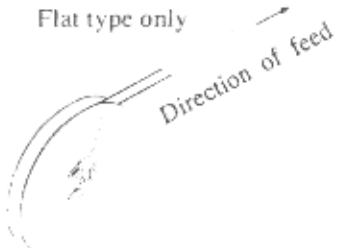
# ■ OPTIONS

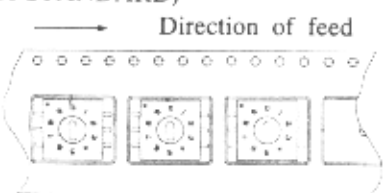
1. Special marking available.
2. Shaft Cover
   118-80100 (White)
   118-80200 (Red)



3. Tape & Reel Packaging (per EIA STANDARD)

Flat type only




Each Reel contain 750 pcs switches with a 390mm minimum leader and a 160mm minimum trailer